

WHAT IS CLAIMED IS:

1. Quick coupler for the removable join of two pipes through which a fluid under pressure passes, said coupler comprising two elements, male and female,
5 adapted to fit axially in each other, the body of the female element being equipped with a latch loaded by elastic means, mounted to slide in said body and pierced with an opening for the fit of said male element or of a piece displaced by said male element, the wall of the opening of the latch being equipped with teeth offset with respect to one another along a median axis of said opening,
10 while said male element or said piece is provided with a shoulder adapted to rest selectively against one of said teeth,
wherein it comprises a safety member subjected to the action of the pressure exerted by the fluid and provided with a surface adapted to come into abutment on a complementary surface of said latch and to block the movement of said
15 latch against said elastic means.
2. The quick coupler of Claim 1, wherein said safety member is mobile with respect to the body of said female element, essentially under the effect of the pressure exerted by the fluid and under the effect of an effort of reaction exerted by said latch.
- 20 3. The quick coupler of Claim 1, wherein said surfaces formed respectively on the safety member and on the latch are inclined with respect to the direction of relative displacement of the male and female elements and with respect to the direction of slide of said latch in the body of the female element.
4. The quick coupler of Claim 3, wherein said surfaces are inclined towards
25 an axis parallel to the longitudinal axis of said coupler in the direction of upstream of said coupler.

5. The quick coupler of Claim 1, wherein said safety member is formed by a piston moving in a direction substantially parallel to the direction of relative displacement of said male and female elements.

6. The quick coupler of Claim 4, wherein said piston comprises an orifice
5 adapted to allow the passage of the male element or of said piece displaced by said male element.

7. The quick coupler of Claim 1, wherein said means for returning the latch is adapted to provoke separation of the abutting surfaces of said latch and of said safety member, when the pressure exerted by the fluid in said coupler is this side
10 of a pre-established value.

8. The quick coupler of Claim 1, wherein the body of said female element comprises a principal part in which is immobilized a secondary part of the female element connected to one of said pipes, immobilization being effected by catches borne by said secondary part catching with complementary catches
15 borne by said principal part.

9. The quick coupler of Claim 1, wherein it comprises an intermediate piece adapted to receive the body of said male element and provided with means for locking said body, said means being adapted to release said body when said latch is displaced under the effect of said elastic means.

20 10. The quick coupler of Claim 9, wherein said intermediate piece is elastically loaded towards a position where said locking means are not active.